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# WITHOUT PENCIL AND PAPER

By L. W. HENDERSHOTT

**W**HETHER or not the solution of so called trick or catch problems increases mental agility is open to argument. Without deciding that question, however, most of us like to try them.

It is hoped that this column may serve as a clearing house for such problems, and get out into general circulation some of the brain teasers that are collecting cob webs stored away in the minds of a lot of people.

Send your puzzles in to the editor of the ENGINEER. Thanks to Jim Robinson and Dudley Brooks for puzzles received. They are No. 5 and 6 in this issue.

*Answers are given to both last month and this month's puzzles on page 19. Use your will power and don't peek until you've solved them.*

## No. 4

A man applied for work at a farmhouse and the farmer, wishing to test his ingenuity, gave him an eight gallon jug full of milk and two empty jugs, of five and

three gallons capacity respectively. He then asked the prospective farmhand to measure out exactly four gallons of milk without pouring away or spilling any.

The applicant readily did this, not only one way but by two methods and as a result got the job.

## No. 5

Three masters and three servants are travelling through wild country and come to the bank of a river. They find a small boat, large enough to accommodate only two at one time. The masters distrust the servants and are afraid to be left alone at any time on either bank with a greater number of servants than masters. The masters are expert oarsmen but only one of the servants can row. How can all cross in safety.

## No. 6

Given the two words NEW DOOR, try to regroup the letters to spell one word.

# WITHOUT PENCIL AND PAPER

## ANSWERS

R and S-1 cross

R returns

R and S-2 cross

### LAST MONTH—

No. 1. Three cuts and three welds giving a total charge of \$1.05.

No. 2. The stream flows one and one-half miles per hour. The time which it takes to recover the hat is independent of the rower's speed as long as it is constant.

No. 3. The book worm travelled two inches.

No. 6. ONE WORD

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### THIS MONTH—

No. 4. First solution—

Fill 5

Fill 3 from 5

Empty 3 into 8

Pour two from 5 to 3

Fill 5 from 8

Pour one from 5 to 3 leaving four in 5

Second solution —

Fill 3 from 8

Pour three from 3 to 5

Fill 3 from 8

Pour two from 3 to 5

Empty 5 into 8

Pour one from 3 to 5

Fill 3 leaving four in 8

No. 5. Code—M represents Masters

S represents Non-Rowing Servants

R represents Rowing Servant

Solution—

R and S-1 cross

R returns

R and S-2 cross

R returns

M-1 and M-2 cross

M-1 and S-1 return

M-1 and R cross

M-1 and S-2 return

M-1 and M-3 cross

R returns